

## **AMENDMENTS TO THE CLAIMS**

Claims 1-20 (Cancelled).

21. (New) A motor unit comprising:

- a motor including a speed reduction mechanism;
- a case frame containing said speed reduction mechanism;
- a cover assembly fitted to an upper side of said case frame and containing a drive control section having a control circuit for driving said motor, said drive control section including:
  - a first circuit component containing section;
  - a second circuit component containing section, said first circuit component containing section and said second circuit component containing section being arranged in a three-dimensional manner so as to be stacked one above the other with respect to an upper and lower direction, and so as to be located at an upper side of said speed reduction mechanism; and
  - a connecting line arranged between said first circuit component containing section and said second circuit component containing section.

22. (New) The motor unit according to claim 21, wherein:

- said first circuit component containing section includes a printed wiring board, and
- said second circuit component containing section includes circuit components electrically connected to said printed wiring board via said connecting line.

23. (New) The motor unit according to claim 22, wherein said printed wiring board and said circuit components in said second circuit component containing section are arranged substantially in parallel with each other, said connecting line being interposed between said printed wiring board and said circuit components.

24. (New) The motor unit according to claim 21, further comprising:

signal system circuit components arranged in said first circuit component containing section; and

power system circuit components arranged in said second circuit component containing section.

25. (New) The motor unit according to claim 24, wherein said power system circuit components are directly mounted on said connecting line.

26. (New) The motor unit according to claim 24, further comprising a printed wiring board arranged in said first circuit component containing section and said second circuit component containing section, said signal system circuit components and said power system circuit components being mounted on said printed wiring board, an area of a copper-foil pattern of said wiring board arranged in said first circuit component containing section being smaller than an area of a copper-foil pattern of said wiring board arranged in said second circuit component containing section.

27. (New) The motor unit according to claim 21, wherein said second circuit component containing section is located on an upper side of said first circuit component containing section.

28. (New) The motor unit according to claim 21, further comprising a heat sink at an outer and upper side of said second circuit component containing section.

29. (New) The motor unit according to claim 21, wherein said cover assembly has a two-chamber structure including a first chamber comprising said first circuit component containing section and a second chamber comprising said second circuit component containing section.

30. (New) The motor unit according to claim 29, wherein said cover assembly includes a dividing wall separating said first circuit component containing section from said second circuit component containing section.

31. (New) The motor unit according to claim 21, wherein said cover assembly includes a dividing wall separating said first circuit component containing section from said second circuit component containing section.

32. (New) The motor unit according to claim 31, wherein said dividing wall has a connecting hole for allowing said first circuit component containing section to communicate with said second circuit component containing.

33. (New) The motor unit according to claim 32, wherein said cover assembly further includes:  
a bottom case having said dividing wall, said first circuit component containing section being located between said dividing wall and said case frame; and  
a case cover fitted to said bottom case, said second circuit component containing section being located between said case cover and said dividing wall.

34. (New) The motor unit according to claim 31, wherein said cover assembly further includes:  
a bottom case having said dividing wall, said first circuit component containing section being located between said dividing wall and said case frame; and  
a case cover fitted to said bottom case, said second circuit component containing section being located between said case cover and said dividing wall.

35. (New) The motor unit according to claim 34, further comprising power system circuit components fixed to an inner surface of said case cover.

36. (New) The motor unit according to claim 35, wherein said case cover has a plurality of fins on an outer surface thereof.

37. (New) The motor unit according to claim 35, wherein said case cover is made of aluminum, and black alumite treatment is applied to an outer surface of said case cover.

38. (New) The motor unit according to claim 34, wherein said case cover has a plurality of fins on an outer surface thereof.

39. (New) The motor unit according to claim 38, wherein said case cover is made of aluminum, and black alumite treatment is applied to an outer surface of said case cover.

40. (New) The motor unit according to claim 34, wherein said case cover is made of aluminum, and black alumite treatment is applied to an outer surface of said case cover.

41. (New) The motor unit according to claim 21, wherein said first circuit component containing section includes a rotation sensor for detecting a rotation of a motor shaft of said motor.

42. (New) The motor unit according to claim 21, wherein said first circuit component containing section includes a position sensor for detecting a rotation angle of a drive shaft of said speed reduction mechanism, said drive shaft being operable to output a decelerated rotation of said motor shaft.

43. (New) The motor unit according to claim 21, wherein said connecting line electrically connects circuit components contained in said first circuit component containing section to circuit components contained in said second circuit component containing section, and said connecting line is operable to absorb noise generated from said circuit components.

44. (New) A motor unit comprising:

a motor including:

a yoke having a closed-bottom cylindrical shape;

a permanent magnet fixed on an inner circumferential surface of said yoke;

a motor shaft having a first end rotatably supported in said yoke;

an armature core fixed to said motor shaft;

a coil wound around said armature core;

a commutator fixed to said motor shaft and arranged adjacent to said armature core and electrically connected to said coil;

a brush in slide contact with said commutator; and

a brush holder for retaining said brush;

a speed reduction mechanism engaged with a worm of said motor shaft to decelerate a rotation of said motor shaft and to transfer the decelerated rotation to an output shaft;

a case frame connected to said yoke and containing said speed reduction mechanism; and

a cover assembly including:

a bottom case having a first circuit component containing section, a second circuit component containing section, a dividing wall arranged between said first circuit component containing section and said second circuit component containing section, said bottom case being arranged such that said first circuit component containing section faces said speed reduction mechanism;

a case cover fitted to said bottom case and shaped to cover said second circuit component containing section;

signal system circuit components in said first circuit component containing section;

power system circuit components in said second circuit component containing section for supplying an electric current to said motor from said signal system circuit components to drive said motor; and

a connecting line connecting said signal system circuit components to said power system circuit components.

45. (New) The motor unit according to claim 44, wherein said first circuit component containing section includes a rotation sensor for detecting the rotation of said motor shaft.

46. (New) A motor unit comprising:

a motor including:

a yoke having a closed-bottom cylindrical shape;

a permanent magnet fixed on an inner circumferential surface of said yoke;

a motor shaft having a first end rotatably supported in said yoke;

an armature core fixed to said motor shaft;

a coil wound around said armature core;

a commutator fixed to said motor shaft and arranged adjacent to said armature core and electrically connected to said coil;

a brush in slide contact with said commutator; and

a brush holder for retaining said brush;

a speed reduction mechanism engaged with a worm of said motor shaft to decelerate a rotation of said motor shaft and to transfer the decelerated rotation to an output shaft;

a case frame connected to said yoke and containing said speed reduction mechanism;

a bottom case having a first circuit component containing section, a second circuit component containing section, a dividing wall arranged between said first circuit component containing section and said second circuit component containing section, said bottom case being arranged such that said first circuit component containing section faces said speed reduction mechanism;

a case cover fitted to said bottom case so as to cover said second circuit component containing section; and

a cover assembly including:

first circuit components in said first circuit component containing section, said first circuit components including a position sensor;

second circuit components in said second circuit component containing section, said second circuit components including a FET for supplying an electric current to said motor from said first circuit components in said first circuit component containing section to drive said motor; and

a connecting line connecting said first circuit components to said second circuit components.

47. (New) The motor unit according to claim 46, wherein said first circuit component containing section includes a rotation sensor for detecting the rotation of said motor shaft.

48. (New) The motor unit according to claim 46, wherein said case cover has a heat sink; and said position sensor of said first circuit components is operable to detect a rotation angle of a drive shaft of said speed reduction mechanism, said first circuit components further including a rotation sensor for detecting the rotation of said motor shaft.